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Well-designed courseware improves teaching effectiveness and encourages active learning. This paper reports our experience in developing a multimedia and interactive courseware for an information security course in our distance education program as well as course supplementary materials for our on-site information security courses. The courseware emphasizes interactivity and reusability, following common cognitive principles and pedagogical methods.

**Keywords:** active learning, courseware design, information security, interactive learning

**2 Risks to the public: Risks to the public** Peter G. NeumannMay 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(177.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

**3 Zodiac: a history-based interactive video authoring system** Tzi-cker Chiueh, Tulika Mitra, Anindya Neogi, Chuan-Kai YangSeptember 1998 **Proceedings of the sixth ACM international conference on Multimedia****Publisher:** ACM PressFull text available:  [pdf\(1.10 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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1 Sequential thematic organization of publications: how to achieve coherence in  **proposals and reports**  
 J. R. Tracey, D. E. Rugh, W. S. Starkey  
 August 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23 Issue 3  
**Publisher:** ACM Press  
 Full text available:  [pdf\(3.80 MB\)](#) Additional Information: [full citation](#), [index terms](#)

2 Sorrento workshop papers: On the usefulness of deterministic grammars for  **simulation languages**  
 Antonio P. Bongiuliami, Francois E. Cellier  
 January 1984 **ACM SIGSIM Simulation Digest**, Volume 15 Issue 1  
**Publisher:** ACM Press  
 Full text available:  [pdf\(2.56 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)  
 The aim of this paper is to give some indications on how future simulation languages should be structured to guarantee a high degree of software robustness. For this purpose, we concentrated on the particular aspect of classifying languages into several groups out of which we recommend the group of the LL(1) languages for the construction of simulation software. A general purpose parser program is presented which allows to check whether a particular language definition falls into the class of the ...

3 Converting from a paper to an on-line computing center newsletter   
 Matthew Wall  
 November 1993 **Proceedings of the 21st annual ACM SIGUCCS conference on User services**  
**Publisher:** ACM Press  
 Full text available:  [pdf\(759.86 KB\)](#) Additional Information: [full citation](#), [index terms](#)

4 Scalability, locality, partitioning and synchronization PDES   
 David M. Nicol  
 July 1998 **ACM SIGSIM Simulation Digest , Proceedings of the twelfth workshop on Parallel and distributed simulation PADS '98**, Volume 28 Issue 1  
**Publisher:** IEEE Computer Society, ACM Press  
 Full text available:  [pdf\(997.47 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)  


**5 Making smalltalk a database system**

 George Copeland, David Maier

June 1984 **ACM SIGMOD Record , Proceedings of the 1984 ACM SIGMOD international conference on Management of data SIGMOD '84**, Volume 14 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(1.31 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

To overcome limitations in the modeling power of existing database systems and provide a better tool for database application programming, Servio Logic Corporation is developing a computer system to support a set-theoretic data model in an object-oriented programming environment. We recount the problems with existing models and database systems. We then show how features of Smalltalk, such as operational semantics, its type hierarchy, entity identity and the merging of programming and data are ...

**6 Virtual I/O, an experiment**

 R. L. Hartung, A. Ammerman

November 1979 **ACM SIGMICRO Newsletter , Proceedings of the 12th annual workshop on Microprogramming MICRO 12**, Volume 10 Issue 4

**Publisher:** IEEE Press, ACM Press

Full text available:  pdf(437.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes an experiment in virtualizing Input/Output (I/O) for allowing new I/O technologies, such as ARPANET, to replace old hardwired interface disciplines. This was accomplished using micro-programmable host machines, emulation, and virtual machine concepts. The I/O system under study was the Naval Tactical Data System interface which is a U.S. Navy standard.

**7 Overview of an Ada compatible distributed database manager**

 Arvola Chan, Umeshwar Dayal, Stephen Fox, Nathan Goodman, Daniel R. Ries, Dale Skeen

May 1983 **ACM SIGMOD Record , Proceedings of the 1983 ACM SIGMOD international conference on Management of data SIGMOD '83**, Volume 13 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(1.16 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Adaplex is an integrated language for programming database applications. It results from the embedding of the database sublanguage DAPLEX in the general purpose programming language Ada. This paper provides an overview of the DDM: a distributed database manager (DDM) that supports the use of Adaplex as an interface language. The important technical innovations we have incorporated in the design of this system include: 1. An advanced data model that captures more application semantics than conventional ...

**8 Risks to the public: Risks to the public**

 Peter G. Neumann

May 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(177.87 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

**9 Optimality and inefficiency: what isn't a cost model of the lambda calculus?**

 Julia L. Lawall, Harry G. Mairson

June 1996 **ACM SIGPLAN Notices , Proceedings of the first ACM SIGPLAN international conference on Functional programming ICFP '96**, Volume 31 Issue 6

**Publisher:** ACM Press

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We investigate the computational efficiency of the *sharing graphs* of Lamping [Lam90], Gonthier, Abadi, and Lévy [GAL92], and Asperti [Asp94], designed to effect so-called *optimal evaluation*, with the goal of reconciling optimality, efficiency, and the clarification of reasonable cost models for the  $\lambda$ -calculus. Do these graphs suggest reasonable cost models for the  $\lambda$ -calculus? If they are optimal, are they efficient? We present a brief survey of these ...

**10 Key management for encrypted broadcast** Avishai WoolMay 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 2**Publisher:** ACM PressFull text available:  pdf(220.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We consider broadcast applications where the transmissions need to be encrypted, such as direct broadcast digital TV networks or Internet multicast. In these applications the number of encrypted TV programs may be very large, but the secure memory capacity at the set-top terminals (STT) is severely limited due to the need to withstand pirate attacks and hardware tampering. Despite this, we would like to allow the service provider to offer different packages of programs to the users. A user ...

**Keywords:** conditional access, pay-per-view**11 Key management for encrypted broadcast** Avishai WoolNovember 1998 **Proceedings of the 5th ACM conference on Computer and communications security****Publisher:** ACM PressFull text available:  pdf(1.18 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**12 History-based access control for mobile code** Guy Edjlali, Anurag Acharya, Vipin ChaudharyNovember 1998 **Proceedings of the 5th ACM conference on Computer and communications security****Publisher:** ACM PressFull text available:  pdf(1.33 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**13 Still looking for trouble: commentary on Marshall Atlas's "the user edit"** Nina WishbowAugust 1998 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 22 Issue 3**Publisher:** ACM PressFull text available:  pdf(561.96 KB) Additional Information: [full citation](#), [index terms](#)**14 Zodiac: a history-based interactive video authoring system** Tzi-cker Chiueh, Tulika Mitra, Anindya Neogi, Chuan-Kai YangSeptember 1998 **Proceedings of the sixth ACM international conference on Multimedia****Publisher:** ACM PressFull text available:  pdf(1.10 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**15 The graphic designer's role**

 Susan E. Metros

July 1994 **interactions**, Volume 1 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(1.53 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

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S. Christodoulakis, D. A. Ford

May 1989 **ACM SIGIR Forum**, **Proceedings of the 12th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '89**, Volume 23 Issue SI

**Publisher:** ACM Press

 Full text available: [pdf\(1.08 MB\)](#)

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A large and important class of optical disc technology are CLV format discs such as CD ROM and WORM. In this paper, we examine the issues related to the implementation and performance of several different file organizations on CLV format optical discs such as CD ROM and WORM. The organizations examined are based on hashing and trees. The CLV recording scheme is shown to be a good environment for efficiently implementing hashing. Single seek access and storage utilization levels a ...

### 2 [Session summaries from the 17th symposium on operating systems principle \(SOSP'99\)](#)

Jay Lepreau, Eric Eide

 April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2

**Publisher:** ACM Press

 Full text available: [pdf\(3.15 MB\)](#)

 Additional Information: [full citation](#), [index terms](#)

### 3 [Secure audit logs to support computer forensics](#)

Bruce Schneier, John Kelsey

 May 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 2

**Publisher:** ACM Press

 Full text available: [pdf\(125.50 KB\)](#)

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In many real-world applications, sensitive information must be kept in log files on an untrusted machine. In the event that an attacker captures this machine, we would like to guarantee that he will gain little or no information from the log files and to limit his ability to corrupt the log files. We describe a computationally cheap method for making all log entries generated prior to the logging machine's compromise impossible for the attacker to read, and also impossible to modify or destroy ...

**Keywords:** audit logs, auditing, authentication, computer forensics, hash chains, intrusion detection

**4 Principles of OBJ2**

 Kokichi Futatsugi, Joseph A. Goguen, Jean-Pierre Jouannaud, José Meseguer  
January 1985 **Proceedings of the 12th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

**Publisher:** ACM Press

Full text available:  pdf(1.57 MB)

Additional Information: [full citation](#), [citations](#), [index terms](#)

**5 RISCY patents**

 David A. Patterson  
September 1988 **ACM SIGARCH Computer Architecture News**, Volume 16 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(1.83 MB)

Additional Information: [full citation](#), [index terms](#)

**6 The internet worm program: an analysis**

 Eugene H. Spafford  
January 1989 **ACM SIGCOMM Computer Communication Review**, Volume 19 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(2.45 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

On the evening of 2 November 1988, someone infected the Internet with a *worm* program. That program exploited flaws in utility programs in systems based on BSD-derived versions of UNIX. The flaws allowed the program to break into those machines and copy itself, thus *infecting* those systems. This program eventually spread to thousands of machines, and disrupted normal activities and Internet connectivity for many days. This report gives a detailed description of the components of the ...

**7 Shade: a fast instruction-set simulator for execution profiling**

 Bob Cmelik, David Keppel  
May 1994 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1994 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '94**, Volume 22 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(1.28 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Tracing tools are used widely to help analyze, design, and tune both hardware and software systems. This paper describes a tool called Shade which combines efficient instruction-set simulation with a flexible, extensible trace generation capability. Efficiency is achieved by dynamically compiling and caching code to simulate and trace the application program. The user may control the extent of tracing in a variety of ways; arbitrarily detailed application state information may be collected ...

**8 Report on the seventh ACM SIGOPS European workshop: systems support for worldwide applications**

 Andrew S. Tanenbaum  
January 1997 **ACM SIGOPS Operating Systems Review**, Volume 31 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(923.32 KB)

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Kim, M.R.; Seo, H.; Park, J.W.; Choi, W.S.; Yoo, T.K.;  
[Optical Data Storage Topical Meeting, 1997. ODS. Conference Digest](#)  
 7-9 April 1997 Page(s):100 - 101  
 Digital Object Identifier 10.1109/ODS.1997.606142

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 [2. CD-rewritable and future disc technology](#)

Iwasaki, H.;  
[Optical Data Storage Topical Meeting, 1997. ODS. Conference Digest](#)  
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 [3. Development of rewritable CD recorder](#)

Sohmata, M.; Takahashi, J.; Sameshima, T.; Yamada, M.; Itoh, S.; Nakai, H.; I Funaki, A.;  
[Consumer Electronics, 1989. Digest of Technical Papers. ICCE., IEEE 1989. In Conference on](#)  
 6-9 June 1989 Page(s):220 - 221  
 Digital Object Identifier 10.1109/ICCE.1989.69100

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*Consumer Electronics, 2002. ICCE. 2002 Digest of Technical Papers. International*

18-20 June 2002 Page(s):256 - 257

Digital Object Identifier 10.1109/ICCE.2002.1014018

[AbstractPlus](#) | Full Text: [PDF\(333 KB\)](#) [IEEE CNF Rights and Permissions](#) 2. **DVD+RW: 2-way compatibility for video and data applications**Buma, C.; Brondijk, R.; Stan, S.G.;  
*Consumer Electronics, 2000. ICCE. 2000 Digest of Technical Papers. International*

13-15 June 2000 Page(s):88 - 89

Digital Object Identifier 10.1109/ICCE.2000.854509

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[www.hnsa.org/doc/nara/cranenqlibrary.htm](http://www.hnsa.org/doc/nara/cranenqlibrary.htm) - 189k - [Cached](#) - [Similar pages](#)

**NAVAL ENIGMA: SEAHORSE AND OTHER KRIEGSMARINE CIPHER BLUNDERS ...**A contemporary **record** states that only seven messages were necessary on the British

bombes: ... 48 "**Cryptographic Summary** of Seahorse", section II, 1. ....  
[www.findarticles.com/p/articles/mi\\_qa3926/is\\_200407/ai\\_n9458624/pg\\_18](http://www.findarticles.com/p/articles/mi_qa3926/is_200407/ai_n9458624/pg_18) - 28k -  
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[0036] Preferably the storage medium 101 now is a **record** carrier of an optical ... The necessary parameter now constitutes the **cryptographic summary** of the ...  
[www.freshpatents.com/Flexible-host-system-for-storage-media-dt2005110ptan20050251481.php?type=description](http://www.freshpatents.com/Flexible-host-system-for-storage-media-dt2005110ptan20050251481.php?type=description) - 49k - Cached - Similar pages

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**recording** apparatus and to a corresponding playback apparatus . ... A **cryptographic summary** is computed. and also stored in the recordable data area or in ...  
[www.egpto.eg.wipo.net/inner/english/PDFs/egyptian\\_patent\\_abstract\\_4\\_2003\\_e.pdf](http://www.egpto.eg.wipo.net/inner/english/PDFs/egyptian_patent_abstract_4_2003_e.pdf) -  
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area, and the **cryptographic summary** is. used for verification of the system data. before reading and/or **recording** of user. data. ...  
[www.halachot.co.il/dwlfls/17\(1\).pdf](http://www.halachot.co.il/dwlfls/17(1).pdf) - Similar pages

**US Pregnant 20010049662 - Recordable storage medium with protected ...**

... to a corresponding **recording** apparatus and to a corresponding playback ... A **cryptographic summary** is computed and also stored in the recordable data ...  
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... to a corresponding **recording** apparatus and to a corresponding playback ... A **cryptographic summary** is computed and also stored in the recordable data ...  
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**Cryptographic Summary.** • Private Key Encryption (also Symmetric Key) ... But what if the game needs to write out a file **recording**. scores? ...  
[inst.eecs.berkeley.edu/~cs162/fa06/hand-outs/class-reader.pdf](http://inst.eecs.berkeley.edu/~cs162/fa06/hand-outs/class-reader.pdf) - Similar pages

**Digital document time-stamping with catenate certificate - Patent ...**

... at which the digital document is stamped is certified by a **cryptographic summary**, ...  
 This catenate **record** would thus have been developed as follows. ...  
[www.wikipatents.com/patenthtml.php?id=5136646](http://www.wikipatents.com/patenthtml.php?id=5136646) - 60k - Cached - Similar pages

**Digital document time-stamping with catenate certificate - Patent ...**

... at which the digital document is stamped is certified by a **cryptographic summary**, ...  
 This catenate **record** would thus have been developed as follows. ...

[www.wikipatents.com/5136646.html](http://www.wikipatents.com/5136646.html) - 120k - Cached - Similar pages

## eCryptfs Design Document

4.5 **Cryptographic Summary** The key design components for eCryptfs release 0.1 are: ...

For the **record**, if you mount with one passphrase, create a file, ...

[www.gatago.com/linux/kernel/6108016.html](http://www.gatago.com/linux/kernel/6108016.html) - 102k - Cached - Similar pages

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Results 31 - 31 of 31 for **recording "cryptographic summary"** (0.11 seconds)

[PDF] [Joint Tactical Radio System](#)

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JTR SYSTEM **CRYPTOGRAPHIC SUMMARY**. The JTR Sets identified in this ORD operate with or ... **RECORD AND PLAY BACK CAPABILITY**. N/A. IV-F-5. SURVIVABILITY ...

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**1 Analysis and verification: CDiff: a new reduction technique for constraint-based analysis of security protocols**

David Basin, Sebastian Mödersheim, Luca Viganò

 October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**
**Publisher:** ACM Press

 Full text available: [pdf\(278.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce CDiff, a new technique for reducing search when model-checking security protocols. Our technique is based on eliminating certain kinds of redundancies that arise in the search space when using symbolic exploration methods, in particular methods that employ constraints to represent and manipulate possible messages from an active intruder. Formally, we prove that CDiff terminates and is correct and complete, in that it preserves the set of reachable states so that all state-based prop ...

**Keywords:** constraints, partial-order reduction, protocol verification

**2 Privacy through pseudonymity in user-adaptive systems**

 Alfred Kobsa, Jörg Schreck
 May 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 2

**Publisher:** ACM Press

 Full text available: [pdf\(881.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

User-adaptive applications cater to the needs of each individual computer user, taking for example users' interests, level of expertise, preferences, perceptual and motoric abilities, and the usage environment into account. Central user modeling servers collect and process the information about users that different user-adaptive systems require to personalize their user interaction. Adaptive systems are generally better able to cater to users the more data their user modeling systems collect and ...

**Keywords:** Chaum mix, KQML, User modeling, access control, anonymity, encryption, personal information, personalization, privacy, pseudonymity, reference model, secrecy, security, user-adaptive systems

**3 The minimum consistent DFA problem cannot be approximated within any polynomial**

 Leonard Pitt, Manfred K. Warmuth
 January 1993 **Journal of the ACM (JACM)**, Volume 40 Issue 1

**Publisher:** ACM Press

Additional Information:

Full text available:  pdf(3.44 MB)[full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The minimum consistent DFA problem is that of finding a DFA with as few states as possible that is consistent with a given sample (a finite collection of words, each labeled as to whether the DFA found should accept or reject). Assuming that  $P \neq NP$ , it is shown that for any constant  $k$ , no polynomial-time algorithm can be guaranteed to find a consistent DFA with fewer than  $opt_k$  states, where ...

**Keywords:** approximation algorithms, minimization of finite state machines, nonapproximability

#### 4 Secure audit logs to support computer forensics

 Bruce Schneier, John Kelsey

May 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(125.50 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In many real-world applications, sensitive information must be kept in log files on an untrusted machine. In the event that an attacker captures this machine, we would like to guarantee that he will gain little or no information from the log files and to limit his ability to corrupt the log files. We describe a computationally cheap method for making all log entries generated prior to the logging machine's compromise impossible for the attacker to read, and also impossible to modify or delete ...

**Keywords:** audit logs, auditing, authentication, computer forensics, hash chains, intrusion detection

#### 5 Privacy: Privacy and security in library RFID: issues, practices, and architectures

 David Molnar, David Wagner

October 2004 **Proceedings of the 11th ACM conference on Computer and communications security**

**Publisher:** ACM Press

Full text available:  pdf(241.45 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We expose privacy issues related to Radio Frequency Identification (RFID) in libraries, describe current deployments, and suggest novel architectures for library RFID. Libraries are a fast growing application of RFID; the technology promises to relieve repetitive strain injury, speed patron self-checkout, and make possible comprehensive inventory. Unlike supply-chain RFID, library RFID requires item-level tagging, thereby raising immediate patron privacy issues. Current conventional wisdom su ...

**Keywords:** RFID, privacy, private authentication, security

#### 6 Access control for large collections

 H. M. Gladney

April 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(482.88 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Efforts to place vast information resources at the fingertips of each individual in large user populations must be balanced by commensurate attention to information protection. For distributed systems with less-structured tasks, more-diversified information, and a heterogeneous user set, the computing system must administer enterprise-chosen access control policies. One kind of resource is a digital library that emulates massive collections of paper and other physical media for clerical, en ...

**Keywords:** access control, digital library, document, electronic library, information security

7 Report on the seventh ACM SIGOPS European workshop: systems support for worldwide applications

 Andrew S. Tanenbaum  
January 1997 **ACM SIGOPS Operating Systems Review**, Volume 31 Issue 1  
**Publisher:** ACM Press  
Full text available:  pdf(923.32 KB) Additional Information: [full citation](#), [index terms](#)



8 A theory of the learnable

 L. G. Valiant  
December 1984 **Proceedings of the sixteenth annual ACM symposium on Theory of computing**  
**Publisher:** ACM Press  
Full text available:  pdf(853.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Humans appear to be able to learn new concepts without needing to be programmed explicitly in any conventional sense. In this paper we regard learning as the phenomenon of knowledge acquisition in the absence of explicit programming. We give a precise methodology for studying this phenomenon from a computational viewpoint. It consists of choosing an appropriate information gathering mechanism, the learning protocol, and exploring the class of concepts that can be learnt using it in a reason ...

9 Contents of the Computer Communication Review 1970–1994

 David Oran  
January 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 1  
**Publisher:** ACM Press  
Full text available:  pdf(1.75 MB) Additional Information: [full citation](#), [index terms](#)



10 SE-OSI: a prototype support environment for Open Systems Interconnection

 Owen Newnan  
April 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 2  
**Publisher:** ACM Press  
Full text available:  pdf(1.25 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)



SE-OSI is a prototype of a support environment (SE) for Open Systems Interconnection (OSI). Written in the C++ programming language, it demonstrates object-oriented application programming interfaces (APIs) for OSI as well as Open Distributed Processing (ODP) and investigates transparent transition to OSI and ODP through use of common APIs. Preliminary benchmarks suggest that the SE-OSI approach is suitable for real-time applications. This approach is contrasted with communications APIs currentl ...

11 Random DFA's can be approximately learned from sparse uniform examples

 Kevin J. Lang  
July 1992 **Proceedings of the fifth annual workshop on Computational learning theory**  
**Publisher:** ACM Press  
Full text available:  pdf(857.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Approximate inference of finite state machines from sparse labeled examples has been proved NP-hard when an adversary chooses the target machine and the training set

[Ang78, KV89, PW89]. We have, however, empirically found that DFA's are approximately learnable from sparse data when the target machine and training set are selected at random.

## 12 DRM usability and legal issues: Import/export in digital rights management



 Reihaneh Safavi-Naini, Nicholas Paul Sheppard, Takeyuki Uehara  
October 2004 **Proceedings of the 4th ACM workshop on Digital rights management**

**Publisher:** ACM Press

Full text available:  [.pdf\(211.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The inherently controlled nature of digital rights management systems does little to promote inter-operability of systems provided by different vendors. In this paper, we consider import and export functionality by which multimedia protected by one digital rights management regime can be made available to a multimedia device that supports a different digital rights management regime, without compromising the protection afforded to the content under the original regime. We first identify speci ...

**Keywords:** digital rights management, export, import, inter-operability

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Last Name = KALKER

First Name = ANTONIUS ADRIANUS CORNELIS MARIA

Application#	Patent#	Status	Date Filed	Title	Inventor Name
10496544	Not Issued	30	05/25/2004	Fingerprint database maintenance method and system	KALKER, ANTONIUS ADRIANUS CORNELIS MARIA
10785495	Not Issued	30	02/24/2004	Recordable storage medium with protected data area	KALKER, ANTONIUS ADRIANUS CORNELIS MARIA

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**Inventor Name Search Result**

Your Search was:

Last Name = TALSTRA

First Name = JOHAN

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">09271745</a>	<a href="#">6473560</a>	150	03/18/1999	COPY PROTECTION SCHEMES FOR COPY PROTECTED DIGITAL MATERIAL	TALSTRA, JOHAN C
<a href="#">09488027</a>	<a href="#">6549495</a>	150	01/20/2000	RECORD CARRIER, PLAYBACK DEVICE AND METHOD OF RECORDING INFORMATION	TALSTRA, JOHAN C.
<a href="#">09548727</a>	Not Issued	128	04/13/2000	Method and system of copy protection of information	TALSTRA, JOHAN C.
<a href="#">10382674</a>	<a href="#">7054245</a>	150	03/06/2003	RECORD CARRIER, PLAYBACK DEVICE AND METHOD OF RECORDING INFORMATION	TALSTRA, JOHAN C.
<a href="#">09385278</a>	Not Issued	41	08/30/1999	VIDEO SIGNAL TRANSMISSION	TALSTRA, JOHAN C.
<a href="#">09790185</a>	<a href="#">6986150</a>	150	02/22/2001	REWRITABLE DATA STORAGE MEDIUM HAVING ERASABLE IDENTIFICATION MARKS	TALSTRA, JOHAN CORNELIS
<a href="#">09828005</a>	<a href="#">6738904</a>	150	04/06/2001	RECORDABLE STORAGE MEDIUM WITH PROTECTED DATA AREA	TALSTRA, JOHAN CORNELIS
<a href="#">09853174</a>	Not Issued	121	05/10/2001	Copy protection system	TALSTRA, JOHAN CORNELIS
<a href="#">09881605</a>	<a href="#">6671806</a>	150	06/14/2001	WATERMARK DETECTOR	TALSTRA, JOHAN CORNELIS
<a href="#">09929265</a>	<a href="#">7038600</a>	150	08/14/2001	METHOD AND DEVICE FOR ADDING OR EXTRACTING A SECONDARY INFORMATION SIGNAL TO/FROM A RLL CODE SEQUENCE	TALSTRA, JOHAN CORNELIS
<a href="#">10024739</a>	Not Issued	41	12/19/2001	Conditional access	TALSTRA, JOHAN CORNELIS
<a href="#">10118877</a>	Not Issued	161	04/09/2002	Watermark embedding	TALSTRA, JOHAN CORNELIS

<a href="#"><u>10225383</u></a>	<a href="#"><u>6823006</u></a>	150	08/21/2002	ADDING FIELDS OF A VIDEO FRAME	TALSTRA, JOHAN CORNELIS
<a href="#"><u>10240913</u></a>	Not Issued	30	10/04/2002	Processing copy protection signals	TALSTRA, JOHAN CORNELIS
<a href="#"><u>10257203</u></a>	Not Issued	41	10/09/2002	Processing copy protection signals	TALSTRA, JOHAN CORNELIS
<a href="#"><u>10497335</u></a>	Not Issued	30	06/01/2004	Method and apparatus for verifying the intergrity of system data	TALSTRA, JOHAN CORNELIS
<a href="#"><u>10517924</u></a>	Not Issued	20	12/14/2004	Method for authentication between devices	TALSTRA, JOHAN CORNELIS
<a href="#"><u>10517926</u></a>	Not Issued	30	12/14/2004	System for authentication between devices using group certificates	TALSTRA, JOHAN CORNELIS
<a href="#"><u>10519064</u></a>	<a href="#"><u>7136783</u></a>	150	12/22/2004	METHOD AND ARRANGEMENT FOR PROCESSING A SIGNAL USING A DIGITAL PROCESSOR HAVING A GIVEN WORD LENGTH	TALSTRA, JOHAN CORNELIS
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<a href="#"><u>10525489</u></a>	Not Issued	30	02/23/2005	Method and arrangement for watermark detection	TALSTRA, JOHAN CORNELIS
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<a href="#"><u>10581119</u></a>	Not Issued	19	01/01/0001	Content protection on a record carrier	TALSTRA, JOHAN CORNELIS
<a href="#"><u>10581134</u></a>	Not Issued	19	01/01/0001	Side-channel for record carriers with spiral tracks	TALSTRA, JOHAN CORNELIS
<a href="#"><u>10598936</u></a>	Not Issued	19	01/01/0001	METHOD OF AND DEVICE FOR GENERATING AUTHORIZATION STATUS LIST	TALSTRA, JOHAN CORNELIS
<a href="#"><u>10785495</u></a>	Not Issued	30	02/24/2004	Recordable storage medium with protected data area	TALSTRA, JOHAN CORNELIS
<a href="#"><u>11244682</u></a>	Not Issued	61	10/06/2005	Rewritable data storage medium having erasable identification marks	TALSTRA, JOHAN CORNELIS
<a href="#"><u>09327996</u></a>	<a href="#"><u>6701062</u></a>	150	06/08/1999	GENERATIONAL COPY CONTROL OF A VIDEO	TALSTRA, JOHAN CORNELIS

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L3	189	380/202.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/03 09:42
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L8	125	369/30.03.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/03 09:56
L9	191	369/30.04.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/03 09:56

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L14	135	l11 and ("CD R" or "DVD R/W" or "DVD RW" or rewritable or "CD R/W" or "CD RW")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/03 10:15
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**PALM INTRANET****Inventor Name Search Result**

Your Search was:

Last Name = LINNARTZ

First Name = JOHAN

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">08895250</a>	<a href="#">5933798</a>	150	07/16/1997	DETECTING A WATERMARK EMBEDDED IN AN INFORMATION SIGNAL	LINNARTZ, JOHAN P M G
<a href="#">09488027</a>	<a href="#">6549495</a>	150	01/20/2000	RECORD CARRIER, PLAYBACK DEVICE AND METHOD OF RECORDING INFORMATION	LINNARTZ, JOHAN P. M. G.
<a href="#">09548727</a>	Not Issued	128	04/13/2000	Method and system of copy protection of information	LINNARTZ, JOHAN P. M. G.
<a href="#">09441948</a>	<a href="#">6574349</a>	150	11/17/1999	EMBEDDING AND EXTRACTING SUPPLEMENTAL DATA IN AN INFORMATION SIGNAL	LINNARTZ, JOHAN P. M. G.
<a href="#">10142588</a>	Not Issued	161	05/09/2002	Method and arrangement for detecting a watermark	LINNARTZ, JOHAN P.M.G.
<a href="#">10382674</a>	<a href="#">7054245</a>	150	03/06/2003	RECORD CARRIER, PLAYBACK DEVICE AND METHOD OF RECORDING INFORMATION	LINNARTZ, JOHAN P.M.G.
<a href="#">10395958</a>	Not Issued	41	03/24/2003	Embedding and extracting supplemental data in an information signal	LINNARTZ, JOHAN P.M.G.
<a href="#">10418585</a>	<a href="#">6714659</a>	150	04/18/2003	WATERMARKING AN INFORMATION SIGNAL	LINNARTZ, JOHAN P.M.G.
<a href="#">10598571</a>	Not Issued	19	01/01/0001	WIRELESS MULTI-PATH TRANSMISSION SYSTEM (MIMO) WITH CONTROLLED REPEATERS IN EACH SIGNAL PATH	LINNARTZ, JOHAN P.M.G.
<a href="#">10738554</a>	<a href="#">6947573</a>	150	12/17/2003	WATERMARKING AN INFORMATION SIGNAL	LINNARTZ, JOHAN P.M.G.
<a href="#">11005260</a>	Not Issued	30	12/06/2004	Embedding supplemental data in a digital video signal	LINNARTZ, JOHAN P.M.G.
<a href="#">08723653</a>	<a href="#">6131161</a>	150	10/03/1996	MARKING A DIGITALLY ENCODED VIDEO AND/OR AUDIO SIGNAL	LINNARTZ, JOHAN P.M.G.

<u>09013541</u>	<u>7000113</u>	150	01/26/1998	RECORDING INFORMATION WITH A WATERMARK RELATED TO A PRERECORDED MEDIUM MARK ON AN INFORMATION CARRIER	LINNARTZ, JOHAN P.M.G.
<u>09014170</u>	<u>6209092</u>	150	01/27/1998	METHOD AND SYSTEM FOR TRANSFERRING CONTENT INFORMATION AND SUPPLEMENTAL INFORMATION RELATING THERETO	LINNARTZ, JOHAN P.M.G.
<u>09082446</u>	<u>6415040</u>	250	05/20/1998	DEVICE FOR OPTICALLY SCANNING A RECORD CARRIER	LINNARTZ, JOHAN P.M.G.
<u>09140814</u>	<u>6314518</u>	150	08/26/1998	SYSTEM FOR TRANSFERRING CONTENT INFORMATION AND SUPPLEMENTAL INFORMATION RELATING THERETO	LINNARTZ, JOHAN P.M.G.
<u>09142549</u>	<u>6850567</u>	150	09/10/1998	EMBEDDING SUPPLEMENTAL DATA IN A DIGITAL VIDEO SIGNAL	LINNARTZ, JOHAN P.M.G.
<u>09146021</u>	<u>6252972</u>	150	09/02/1998	METHOD AND ARRANGEMENT FOR DETECTING	LINNARTZ, JOHAN P.M.G.
<u>09146022</u>	<u>6570996</u>	150	09/02/1998	WATERMARKING AN INFORMATIONAL SIGNAL	LINNARTZ, JOHAN P.M.G.
<u>09385278</u>	Not Issued	41	08/30/1999	VIDEO SIGNAL TRANSMISSION	LINNARTZ, JOHAN P.M.G.
<u>09423276</u>	<u>6477431</u>	150	11/04/1999	WATERMARK DETECTION	LINNARTZ, JOHAN P.M.G.
<u>09656988</u>	Not Issued	120	09/07/2000	Spread spectrum transmission system	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>09828005</u>	<u>6738904</u>	150	04/06/2001	RECORDABLE STORAGE MEDIUM WITH PROTECTED DATA AREA	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>09862282</u>	<u>6718287</u>	150	05/22/2001	WATERMARK DETECTION	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>09881605</u>	<u>6671806</u>	150	06/14/2001	WATERMARK DETECTOR	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>09959015</u>	Not Issued	71	10/15/2001	Multicarrier receiver with channel estimator	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>09982260</u>	Not	119	10/17/2001	Multiple authentication sessions	LINNARTZ, JOHAN

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<u>10078932</u>	Not Issued	41	02/19/2002	Multicarrier transmission system with reduced complexity channel response estimation	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>10078936</u>	<u>7120209</u>	150	02/19/2002	REDUCED COMPLEXITY INTERCARRIER INTERFERENCE CANCELLATION	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>10078952</u>	<u>7054354</u>	150	02/19/2002	MULTICARRIER TRANSMISSION SYSTEM WITH REDUCED COMPLEXITY LEAKAGE MATRIX MULTIPLICATION	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>10082856</u>	Not Issued	120	10/19/2001	Method and arrangement for enabling disintermediation, and receiver for use thereby	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>10118877</u>	Not Issued	161	04/09/2002	Watermark embedding	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>10196300</u>	Not Issued	93	07/16/2002	APPARATUS AND METHOD FOR REPRODUCING USER DATA	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>10517919</u>	Not Issued	20	12/14/2004	Flexible host system for storage media	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>10519064</u>	<u>7136783</u>	150	12/22/2004	METHOD AND ARRANGEMENT FOR PROCESSING A SIGNAL USING A DIGITAL PROCESSOR HAVING A GIVEN WORD LENGTH	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>10521134</u>	Not Issued	80	01/12/2005	Copy control using digital speed bumps	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>10537598</u>	Not Issued	30	06/06/2005	Diversity receiver having cross coupled channel parameter estimation	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>10542837</u>	Not Issued	30	07/20/2005	Watermark embedding and detection of a motion image signal	LINNARTZ, JOHAN PAUL MARIE GERARD
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<u>10557628</u>	Not Issued	20	11/17/2005	Method and system for authentication of a physical object	LINNARTZ, JOHAN PAUL MARIE GERARD
<u>10569179</u>	Not Issued	20	02/22/2006	Diversity receiver	LINNARTZ, JOHAN PAUL MARIE

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<a href="#"><u>10569180</u></a>	Not Issued	20	02/22/2006	Virtual-antenna receiver	LINNARTZ, JOHAN PAUL MARIE GERARD
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<a href="#"><u>10785495</u></a>	Not Issued	30	02/24/2004	Recordable storage medium with protected data area	LINNARTZ, JOHAN PAUL MARIE GERARD
<a href="#"><u>09271745</u></a>	6473560	150	03/18/1999	COPY PROTECTION SCHEMES FOR COPY PROTECTED DIGITAL MATERIAL	LINNARTZ, JOHAN PMG

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